

## WHAT IS CLAIMED IS:

1. (Currently Amended) A printer apparatus comprising:  
a print engine that is operative upon an article to be printed to  
5 impart markings upon the article; a fan mounted in said printing apparatus to  
provide air flow therein; a mist producing device for adding humidity in said  
printer apparatus to air moving within said printing apparatus; a sensor for  
detecting humidity within the printer apparatus; a heater for heating air moving  
within said printer apparatus; a sensor for detecting temperature within the printer  
10 apparatus; and a controller for determining if the detected humidity within the  
apparatus falls within a range of acceptable humidities and the detected  
temperature within the apparatus falls within a range of acceptable temperatures  
and provides control of the heater and the mist producing device for control of  
temperature and humidity within the apparatus; wherein the range of acceptable  
15 humidities and acceptable temperatures defines an area of set points of acceptable  
humidities and temperatures; and wherein while said print engine prints on an  
article moved in a process direction, said fan provides an air flow across said  
article in a direction transverse to the process direction.

20 2. (Cancelled)

3. (Cancelled)

25 4. (Cancelled)

5. (Cancelled)

6. (Currently Amended) The printer apparatus of Claim 1 wherein said controller includes a microprocessor that is programmed such that, when the present detected temperature and/or humidity is outside of the area range of acceptable temperatures and humidities, determines a minimum change in a combination of temperature and relative humidity adjustments needed to change the temperature and humidity within the apparatus and in accordance with such determination controls which of the heater and the mist producing device or both is/are to be operated to provide the minimum change needed to change the present temperature and humidity to a temperature and humidity that is inside of the area range of acceptable temperatures and humidities.

7. (Cancelled)

8. (Cancelled)

9. (Cancelled)

10. (Cancelled)

11. (Currently Amended) A method of controlling conditions in a printer apparatus that includes a print engine that is operative upon an article to print marks upon the article, the method comprising:  
detecting humidity within the printer apparatus;  
detecting temperature within the printer apparatus;  
determining if the detected humidity within the apparatus falls within a range of acceptable humidities and the detected temperature within the apparatus falls within a range of acceptable temperatures wherein the range of acceptable humidities and acceptable temperatures defines an area of set points of acceptable humidities and temperatures; and  
while a recording member is moved in a process direction, air flow is provided across the recording member in a direction transverse to the process direction.

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12. (Cancelled)
13. (Cancelled)
14. (Cancelled)
15. (Cancelled)
- 10 16. (Currently Amended) The method of Claim 11 wherein  
when the present detected temperature and relative humidity are outside of the  
area range of acceptable temperatures and humidities, a minimum change in a  
combination of temperature and humidity adjustments needed to change the  
temperature and humidity within the apparatus is determined, and in accordance  
15 with such determination the minimum change needed to change the present  
temperature and humidity to a temperature and humidity that is inside of the area  
range of acceptable temperatures and humidities is accomplished.
- 20 17. (Cancelled)
18. (Cancelled)
19. (Cancelled)
- 25 20. (Cancelled)
21. (Cancelled)
- 30 22. (Currently Amended) The method of Claim 11 wherein the  
printer apparatus has temperature and humidity controlled without use of a  
refrigeration unit.